



Appendix D

Electronic Sample Collection Information

Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-005

Personnel: Ben Chandler

Sample Location: Willowbrook PD - Patrol Room

Pump ID: 10686

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1380.18333 Minutes

Regulator ID: 04465

Sample Comments:

Galson ID:

Regulator-WR537
Canister-WL032

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:08:40 AM

Latitude: 41.747770

Longitude: -87.941384

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 18 In Hg

Sample Volume 0 Liters

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-006

Personnel: Ben Chandler

Sample Location: Willowbrook PD -Evidence

Pump ID: 160

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1378.53333 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:11:57 AM

Latitude: 41.748337

Longitude: -87.941532

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 7 In Hg

Sample Volume 0 Liters

Regulator ID: 04145

Sample Comments:

Galson ID:

Regulator-RR170
Canister-WL152

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-002

Personnel: DH

Sample Location: Lower level Village Hall

Pump ID: 10650

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1439.63333 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:13:47 AM

Latitude: 41.748210

Longitude: -87.941727

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 10 In Hg

Sample Volume 0 Liters

Regulator ID: N/A

Sample Comments:

Galson IDs:

Can: WL036

Reg: WR362

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-007

Personnel: Ben Chandler

Sample Location: Willowbrook PD - Records Front

Pump ID: 10651

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1379.1 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:15:59 AM

Latitude: 41.747791

Longitude: -87.941158

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 10 In Hg

Sample Volume 0 Liters

Regulator ID: 05921

Sample Comments:

Galson ID:

Regulator-WR682
Canister-WL040

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-008

Personnel: Ben Chandler

Sample Location: Willowbrook PD - Detective

Pump ID: 155

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1377.1 Minutes

Regulator ID: 06074

Sample Comments:

Galson ID:

Regulator-WR705
Canister-WL153

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:19:42 AM

Latitude: 41.747740

Longitude: -87.941321

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 12 In Hg

Sample Volume 0 Liters

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-009

Personnel: Ben Chandler

Sample Location: Willowbrook PD - Outdoors

Pump ID: 14104

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1470.3 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:27:33 AM

Latitude: 41.747899

Longitude: -87.940724

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 10 In Hg

Sample Volume 0 Liters

Regulator ID: 04358

Sample Photo (Optional):



Sample Comments:

Galson ID:

Regulator-WR571
Canister-WL254

Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-012

Personnel: Ben Chandler

Sample Location: West Swim Club - Outdoors

Pump ID: 13965

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1366.11667 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:46:55 AM

Latitude: 41.751237

Longitude: -87.941876

Flow Rate Calculations:

Initial Gauge
Pressure 28

In Hg

Final Pressure 6

In Hg

Sample Volume 0

Liters

Regulator ID: 04340

Sample Comments:

Galson ID:

Regulator-WR448
Canister-WL257

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-013

Personnel: Ben Chandler

Sample Location: West Swim Club - Indoors at Pool

Pump ID: 10664

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1447.73333 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:51:06 AM

Latitude: 41.751081

Longitude: -87.941964

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 18 In Hg

Sample Volume 0 Liters

Regulator ID: None

Sample Comments:

Galson ID:

Regulator-WR534
Canister-WL070

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-014

Personnel: DH

Sample Location: Grimsby residence indoors

Pump ID: 10660

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1421.06667 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:58:10 AM

Latitude: 41.758640

Longitude: -87.934482

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 8 In Hg

Sample Volume 0 Liters

Regulator ID: 06070

Sample Photo (Optional):



Sample Comments:

Galson ID

Can: WL063

Reg: WR700

Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-016

Personnel: Ben Chandler

Sample Location: Public Works - Outdoors

Pump ID: 24018

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1445.05 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:59:44 AM

Latitude: 41.755344

Longitude: -87.939498

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 17 In Hg

Sample Volume 0 Liters

Regulator ID: 04590

Sample Comments:

Galson ID:

Regulator-WR654
Canister-WL276

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-015

Personnel: DH

Sample Location: Grimsby residence outdoors

Pump ID: 193

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1415.95 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 9:02:08 AM

Latitude: 41.758545

Longitude: -87.934690

Flow Rate Calculations:

Initial Gauge
Pressure 29 In Hg

Final Pressure 7 In Hg

Sample Volume 0 Liters

Regulator ID: 10137

Sample Comments:

Galson IDs:

Can: WL192

Reg: WR837

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-004

Personnel: Ben Chandler

Sample Location: Willowbrook Hall - Outdoors

Pump ID: 179

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1439.38333 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 9:13:12 AM

Latitude: 41.748581

Longitude: -87.941031

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 19 In Hg

Sample Volume 0 Liters

Regulator ID: None

Sample Comments:

Galson ID:

Regulator-WR396
Canister-WL232

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-017

Personnel: Ben Chandler

Sample Location: Community Park - Outdoors

Pump ID: 10721

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1411.4 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 9:33:42 AM

Latitude: 41.748852

Longitude: -87.949492

Flow Rate Calculations:

Initial Gauge
Pressure 27 In Hg

Final Pressure 10 In Hg

Sample Volume 0 Liters

Regulator ID: 10151

Sample Comments:

Galson ID:

Regulator-WR846
Canister-WL047

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-018

Personnel: Ben Chandler

Sample Location: Willow Pond - Outdoors

Pump ID: 24054

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1345.35 Minutes

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 9:48:17 AM

Latitude: 41.763923

Longitude: -87.939641

Flow Rate Calculations:

Initial Gauge
Pressure 28 In Hg

Final Pressure 7 In Hg

Sample Volume 0 Liters

Ethylene Oxide Risk

11183332

Regulator ID: 04599

Sample Comments:

Galson ID:

Regulator-WR611
Canister-WL261

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-001

Personnel: DH

Sample Location: Village hall floor 3

Pump ID: 10634

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1440.98333 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:08 AM

Latitude: 41.748593

Longitude: -87.941442

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 12 In Hg

Sample Volume 0 Liters

Regulator ID: N/A

Sample Photo (Optional):



Sample Comments:

Galson ID:

Can: WL075

Reg: WR498

Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-003

Personnel: DH

Sample Location: Village Hall Lobby

Pump ID: 201

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1366.9 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:20:53 AM

Latitude: 41.748291

Longitude: -87.941467

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 19 In Hg

Sample Volume 0 Liters

Regulator ID: N/A

Sample Photo (Optional):



Sample Comments:

Galson ID:

Regulator-WR619
Canister-WL172

Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-011

Personnel: DH

Sample Location: Farber residence porch

Pump ID: 241

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1392.8 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:42:11 AM

Latitude: 41.748838

Longitude: -87.947462

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 9 In Hg

Sample Volume 0 Liters

Regulator ID: WR625

Sample Photo (Optional):

Sample Comments:

PSY501963
WL224



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-010

Personnel: DH

Sample Location: Farber residence hallway

Pump ID: 225

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1428.28333 Minutes

Regulator ID: 04348

Sample Comments:

Galson IDs:

Can: WL204

Reg: WR630

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 8:38:21 AM

Latitude: 41.749039

Longitude: -87.947345

Flow Rate Calculations:

Initial Gauge
Pressure 28 In Hg

Final Pressure 6 In Hg

Sample Volume 0 Liters

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-019

Personnel: Ben Chandler

Sample Location: Gower Elementary - Classroom

Pump ID: 24061

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1377.65 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 1:02:41 PM

Latitude: 41.748815

Longitude: -87.954759

Flow Rate Calculations:

Initial Gauge
Pressure 27 In Hg

Final Pressure 9 In Hg

Sample Volume 0 Liters

Regulator ID: 10136

Sample Comments:

Galson ID:

Regulator-WR034
Canister-WL202

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-020

Personnel: Ben Chandler

Sample Location: Gower Elementary - North

Pump ID: 157

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1375.18333 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 1:08:42 PM

Latitude: 41.749623

Longitude: -87.954887

Flow Rate Calculations:

Initial Gauge
Pressure 25 In Hg

Final Pressure 5 In Hg

Sample Volume 0 Liters

Regulator ID: 10158

Sample Comments:

Galson ID:

Regulator-WR850
Canister-WL158

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-021

Personnel: Ben Chandler

Sample Location: Gower Elementary - Gymnasium

Pump ID: 10498

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1378.15 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 1:12:20 PM

Latitude: 41.749277

Longitude: -87.955241

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 9 In Hg

Sample Volume 0 Liters

Regulator ID: None

Sample Comments:

Galson ID:

Regulator-WR369
Canister-WL128

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-022

Personnel: Ben Chandler

Sample Location: Gower Elementary - Learning

Pump ID: 10525

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1421.81667 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 1:18:22 PM

Latitude: 41.749426

Longitude: -87.955351

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 21 In Hg

Sample Volume 0 Liters

Regulator ID: 04575

Sample Comments:

Galson ID:

Regulator-WR500
Canister-WL148

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-023

Personnel: Ben Chandler

Sample Location: Gower Elementary - Outdoors

Pump ID: 10648

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1331.36667 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 1:26:30 PM

Latitude: 41.748558

Longitude: -87.954885

Flow Rate Calculations:

Initial Gauge
Pressure 27

In Hg

Final Pressure 8

In Hg

Sample Volume 0

Liters

Regulator ID: 10142

Sample Comments:

Galson ID:

Regulator-WR845
Canister-WL034

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-024

Personnel: G. Wesley

Sample Location: Gower Middle School - #106

Pump ID: 10510

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1381 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 1:49:06 PM

Latitude: 41.744016

Longitude: -87.934658

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 8 In Hg

Sample Volume 0 Liters

Regulator ID: 04390

Sample Comments:

Galson ID:

Regulator-WR514
Canister-WL115

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-025

Personnel: G. Wesley

Sample Location: Gower Middle School - Library

Pump ID: 182

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1370.21667 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 1:52:58 PM

Latitude: 41.743997

Longitude: -87.933800

Flow Rate Calculations:

Initial Gauge
Pressure 30

In Hg

Final Pressure 7

In Hg

Sample Volume 0

Liters

Regulator ID: 06075

Sample Comments:

Galson ID:

Regulator-WR707
Canister-WL182

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-026

Personnel: G. Wesley

Sample Location: Gower Middle School - #123

Pump ID: 24051

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1398.18333 Minutes

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 1:56:48 PM

Latitude: 41.744116

Longitude: -87.933289

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 27 In Hg

Sample Volume 0 Liters

Ethylene Oxide Risk

11183332

Regulator ID: 04182

Sample Comments:

Galson ID:

Regulator-WR861
Canister-WL285

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-027

Personnel: DH

Sample Location: Gower middle school north

Pump ID: 10618

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1345.01667 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 2:06:17 PM

Latitude: 41.743739

Longitude: -87.933388

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 17 In Hg

Sample Volume 0 Liters

Regulator ID: 06398

Sample Photo (Optional):



Sample Comments:

Galson IDs:

Can: WL087

Reg: WR018

Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-028

Personnel: Ben Chandler

Sample Location: Gower Middle School - Outdoors

Pump ID: 10484

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1391.81667 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 2:09:43 PM

Latitude: 41.743627

Longitude: -87.932279

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 12 In Hg

Sample Volume 0 Liters

Regulator ID: 06727

Sample Comments:

Galson ID:

Regulator-WR784
Canister-WL135

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-029

Personnel: DH

Sample Location: Hinsdale South High School

Pump ID: 10522

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1387.3 Minutes

Regulator ID: 04525

Sample Comments:

Galson

Can: WL112
Reg: RR207

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 3:35:48 PM

Latitude: 41.753689

Longitude: -87.953230

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 22 In Hg

Sample Volume 0 Liters

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-030

Personnel: DH

Sample Location: Hinsdale South High School 2nd

Pump ID: 168

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1382.75 Minutes

Regulator ID: 04294

Sample Comments:

Galson

Can: WL185
Reg: WR440

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 3:46:51 PM

Latitude: 41.753018

Longitude: -87.952903

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 24 In Hg

Sample Volume 0 Liters

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-031

Personnel: DH

Sample Location: Hinsdale South High School

Pump ID: 10487

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1384.15 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 3:50:22 PM

Latitude: 41.753136

Longitude: -87.953601

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 17 In Hg

Sample Volume 0 Liters

Regulator ID: N/A

Sample Photo (Optional):



Sample Comments:

Galson:

Can: WL102

Reg: WR062

Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-032

Personnel: DH

Sample Location: Hinsdale South High School

Pump ID: 233

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1386.56667 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 3:54:52 PM

Latitude: 41.753104

Longitude: -87.953734

Flow Rate Calculations:

Initial Gauge
Pressure 30 In Hg

Final Pressure 9 In Hg

Sample Volume 0 Liters

Regulator ID: 04380

Sample Comments:

Galson
Can: WL222
Reg: WR508

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-033

Personnel: DH

Sample Location: Hinsdale South High School 3rd

Pump ID: 10696

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1388.88333 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 3:58:04 PM

Latitude: 41.754143

Longitude: -87.953221

Flow Rate Calculations:

Initial Gauge
Pressure 30

In Hg

Final Pressure 91

In Hg

Sample Volume 0

Liters

Regulator ID: N/A

Sample Photo (Optional):

Sample Comments:

Galson

Can: WL050

Reg: WR635



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/16/2018-034

Personnel: DH

Sample Location: Hinsdale South High School

Pump ID: 10529

Sample Start Time: 11/16/2018

Sample Stop Time: 11/17/2018

Sample Period: 1347.21667 Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/16/2018

Sample Time: 4:08:34 PM

Latitude: 41.754423

Longitude: -87.951082

Flow Rate Calculations:

Initial Gauge
Pressure 28 In Hg

Final Pressure 6 In Hg

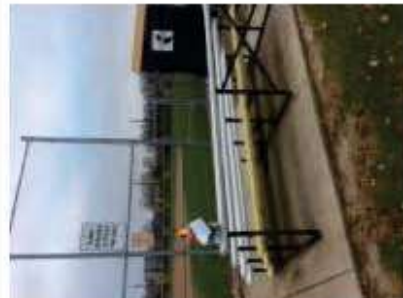
Sample Volume 0 Liters

Regulator ID: 06818

Sample Comments:

Galson
Can: WL141
Reg: WR786

Sample Photo (Optional):



Village of Willowbrook, IL Ethylene Oxide Assessment Integrated Air Samples

New
Sample

Previous
Sample

Next
Sample

Sample ID: Air-11183332-11/17/2018-035

Personnel: G. Wesley

Sample Location: Blank

Pump ID: 223

Sample Start Time:

Sample Stop Time:

Sample Period: Minutes

Ethylene Oxide Risk

11183332

Auto-Entered Information:

Sample Date: 11/17/2018

Sample Time: 8:44:45 AM

Latitude: 41.748092

Longitude: -87.941612

Flow Rate Calculations:

Initial Gauge
Pressure

In Hg

Final Pressure

In Hg

Sample Volume

Liters

Regulator ID:

Sample Comments:

Galson

Can: WL208

Reg: N/A

Sample Photo (Optional):



EXHIBIT D



January 8, 2019

Reference No. 11183332

Tim Halik
Village Administrator
Village of Willowbrook
835 Midway Drive
Willowbrook, IL 60527

Dear Mr. Halik:

**Re: Proposal for Professional Industrial Hygiene and Risk Assessment Services
Hazard Assessment and Ambient Air Sampling – Ethylene Oxide
Village of Willowbrook, Illinois**

1. Introduction

GHD Services Inc. d/b/a GHD Environmental and Consulting Inc. (GHD) is pleased to submit this Proposed Scope of Work and Cost Estimate (Proposal) to provide additional indoor / outdoor air quality services for public sector properties located within the Village of Willowbrook, Illinois. The assessment of air quality within specified buildings and at locations outdoors shall be performed to evaluate the potential risk of exposure to ethylene oxide (EtO) aerosols. Specifically, GHD health professionals will collect ambient air samples for EtO from occupied spaces and outdoor locations. These services are requested on behalf of city officials for The Village of Willowbrook.

On July, 26, 2018 the Agency for Toxic Substances and Disease Registry (ATSDR) – Region 5, a division of the federal Department of Health and Human Services submitted a letter to the Director for Region 5 office for the Environmental Protection Agency (EPA) – Region 5 summarizing the health risk for residents potentially exposed to EtO. In this letter, the ATSDR references health assessment determinations (including air sampling data comparisons) related to EO emissions from the Sterigenics Corporation (Sterigenics) manufacturing facilities located in Willowbrook, Illinois. It is GHD's understanding that Sterigenics uses EtO as part of the sterilization processes for medical equipment and other devices. EtO is listed in the air permit for the Sterigenics – Willowbrook facility and is linked to adverse acute / chronic health effects in humans.

On November 16, 2018, GHD conducted air sampling for the Village of Willowbrook to assess the potential for exposures to Village workers and members of the community to EtO produced by the Sterigenics facilities in Willowbrook, Illinois. The sampling program for this assessment was designed to include public buildings, private residences, public parks, and schools, at locations upwind and downwind of the Sterigenics site. GHD evaluated the EtO concentrations inside buildings relative to the amounts of EtO outside buildings. The measured levels of EtO inside buildings were found to be higher than the outside at all locations sampled, with the exception of the Village Hall. This suggests possible indoor sources of EtO, which have been noted to be present in various household and consumer products such as cigarettes, auto products, cleaners, food which has been sterilized using EtO, and home maintenance products. Further research is needed to evaluate the potential adsorption of low levels of EtO to building

and indoor materials over time; for example, indoor sources such as those noted above could yield low levels of EtO indoors, which could temporarily accumulate until exchange with outdoor air.

GHD envisions the additional assessment services shall consist of two main tasks, as follows:

- Task 1 – Over a longer term testing period, quantify EtO concentrations inside occupied spaces and compare the air sampling data. Characterize indoor concentrations of EtO and otherwise provide guidance on the risk for occupancy.
- Task 2 – Quantify EtO concentrations from selected locations in outside ambient air within the Village of Willowbrook to assess potential impacts for recognized receptors and to compare to results received from indoor locations. Identify whether additional sources of EtO emissions within the immediate areas around the Sterigenics facility or other external influences are impacting sampling results.

2. Scope of Work

GHD will rely on an experienced team of health professionals to meet the expectations for this project. The GHD team includes professionals from industry and regulatory agencies having a broad range of applicable industrial hygiene, risk assessment, chemical engineering, and toxicology experience. The on-site portion of the project will be conducted by GHD Certified Industrial Hygienists (CIH) with support from additional GHD resources.

It is GHD's understanding that five locations within the Village of Willowbrook have been identified for assessment based on the potential of exposures to EtO for building occupants. GHD proposes to collect a total of seven air samples at these locations over a thirty day sampling period. GHD shall collect outdoor air samples at each location on a rotating interval (i.e. air sample deployment every three days). Indoor air samples shall be collected daily from the identified indoor test sites. A list of the buildings / areas to be included in air quality assessment is included in Table 2.1.

Table 2.1 List of Buildings / Areas for Assessment

Test Site #	Name / Facility Type	Building Address	Sample Type	
			Indoor	Outdoor
1	Gower Middle Elementary School	7941 S. Madison Street		X
2	Gower West Elementary School	7650 Clarendon Hills Road		X
3	Willowbrook Public Works Building	701 75 th Street		X
4	Willowbrook Village Hall	835 Midway Drive	X	X
5	Willowbrook Police Station	7760 Quincy Street	X	X

GHD will perform the following field activities expected to be representative of normal operating conditions.

2.1 Area Airborne Sampling

To determine the representative inhalation exposures for building occupants, GHD will collect area air samples for EtO inside the occupied spaces. The area air samples shall be collected at breathing zone height (approximately 5 to 6 feet) in an effort to simulate representative inhalation exposures for the affected occupants in each area. GHD anticipates collecting one area air sample in two selected buildings and five area air samples in selected outdoor locations during each sample period. Area air samples shall be collected using evacuated SUMMA canisters with 24-hour metered flow regulators. All air samples for shall

be collected according to the Environmental Protection Agency (EPA) Method TO-15 including the analysis for EtO. All samples shall be shipped under appropriate Chain of Custody (COC) procedures to SGS Galson Laboratory for analysis. Galson is accredited by the American Industrial Hygiene Association (AIHA) for the analysis of air samples. The laboratory results for the air samples will be relied on to identify any occupied areas where airborne EtO concentrations are present in greater concentrations compared to background.

2.2 Field Documentation

Appropriate field documentation will be collected including a daily activity log, sampling field forms, site observations, and other pertinent documentation. All sampling data and supporting documentation collected during this assessment shall be stored in a comprehensive on-Site electronic database. GHD shall use custom database application (i.e. mobile data collection and data management tools for field data collection, archiving and reporting) that upload field data directly to a secure GHD server.

2.3 Schedules and Deliverables

GHD will work with the Village of Willowbrook to set up a mutually agreeable schedule for the additional assessment activities. GHD understands that air sampling is scheduled for completion during the first quarter of 2019. To ensure that this deadline is met, GHD will make the necessary personnel and resources available for this project.

At the completion of the sampling activities, GHD will provide a written report to the Village of Willowbrook within twenty business days after receiving the laboratory results. The report will include the following:

- An executive summary
- A comparison of sampling results reported at indoors / outdoors locations
- A site plan presenting monitoring and sampling locations
- Determination on the occupancy for building occupants
- Conclusions and recommendations

3. Estimated Cost

This proposal describes the estimated cost for providing the services described above. Costs for any additional services or labor will be billed on a time and materials basis and will require prior approval by the Village of Willowbrook. We estimate the cost to provide these services will be approximately **\$125,000**. This figure includes the estimated costs for labor, expenses, travel, laboratory fees, and equipment usage and represents our good-faith attempt to approximate the cost to achieve the goals of this project and the deliverables noted above. For your consideration, GHD has divided the estimated costs accordingly.

Table 3.1 Cost Estimate

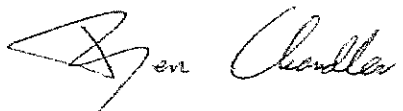
Description	Estimated Cost
Labor (travel, project coordination, on-site activities)	\$63,000
Labor (data review, reporting, conclusions)	\$20,000
Sample Analysis (equipment use and laboratory fees)	\$36,000
Expenses (travel, shipping, transportation)	\$6,000
Total	\$125,000

4. Closing

We appreciate the opportunity to submit this Proposal to the Village of Willowbrook and look forward to working with you. Please do not hesitate to contact us if you require further information or clarification regarding the Scope of Work and Cost Estimate presented herein.

Sincerely,

GHD Services Inc.

A handwritten signature in black ink, appearing to read "Ben Chandler". The signature is written in a cursive, flowing style.

Benjamin Chandler, M.S., CIH, CSP

BLC/lf/1/PR/Clt.

cc: Renee Cipirano, Schiff Harden, LLC
Gayle Neal, Village of Willowbrook
Dyron Hamlin, GHD
Lucy Frazier, Lucy Frazier Consulting

EXHIBIT E